

W/621,412

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=> file biosis medline caplus wpids uspatfull  
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FULL ESTIMATED COST

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FILE 'MEDLINE' ENTERED AT 15:02:03 ON 25 MAR 2007

FILE 'CAPLUS' ENTERED AT 15:02:03 ON 25 MAR 2007

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FILE 'WPIDS' ENTERED AT 15:02:03 ON 25 MAR 2007

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FILE 'USPATFULL' ENTERED AT 15:02:03 ON 25 MAR 2007

CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

\*\*\* YOU HAVE NEW MAIL \*\*\*

=> s separat? (6a) RNA

L1 12639 SEPARAT? (6A) RNA

=> s l1 and adsorb?

L2 2177 L1 AND ADSORB?

=> s l2 and desorb?

L3 125 L2 AND DESORB?

=> s l3 and acetylcellulose

L4 4 L3 AND ACETYLCCELLULOSE

=> dup rem l4

PROCESSING COMPLETED FOR L4

L5 4 DUP REM L4 (0 DUPLICATES REMOVED)

=> d l5 bib abs 1-4

L5 ANSWER 1 OF 4 USPATFULL on STN

AN 2007:11484 USPATFULL

TI Method for isolating and purifying a nucleic acid

IN Mori, Toshihiro, Saitama, JAPAN

Maniko, Yoshihiko, Saitama, JAPAN

Hando, Rie, Saitama, JAPAN

Takeshita, Yumiko, Saitama, JAPAN

Inomata, Hiroko, Saitama, JAPAN

PI US 2007009893 A1 20070111

AI US 2004-568101 A1 20040908 (10)

WO 2004-JP13384 20040908

20060213 PCT 371 date

PRAI JP 2003-317104 20030909

JP 2003-339520 20030930

JP 2003-339521 20030930

JP 2003-427355 20031224

JP 2004-66801 20040310

DT Utility

FS APPLICATION

LREP BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747,

US  
CLMN Number of Claims: 36  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Page(s)  
LN.CNT 1930

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is a method for isolating and purifying a nucleic acid, where generation of foams is able to be suppressed whereby the isolation and purification of a nucleic acid are easily and efficiently carried out, the method for isolating and purifying a nucleic acid comprising the step of: (1) contacting a sample solution containing nucleic acid to a solid phase to adsorb the nucleic acid onto the solid phase; (2) contacting a washing solution to the solid phase to wash the solid phase in such a state that the nucleic acid is adsorbed; and (3) contacting an elution solution to the solid phase to desorb the nucleic acid, wherein the sample solution containing nucleic acid contains an antifoaming agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2005:1075898 CAPLUS  
DN 143:342236  
TI Method for selectively separating and purifying RNA  
from mixture of nucleic acids  
IN Inomata, Hiroko; Hando, Rie  
PA Fuji Photo Film Co., Ltd., Japan  
SO PCT Int. Appl., 75 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005093052	A1	20051006	WO 2005-JP6423	20050325
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	JP 2006271201	A	20061012	JP 2005-80040	20050318
	JP 2006238854	A	20060914	JP 2005-82283	20050322
	EP 1727900	A1	20061206	EP 2005-727847	20050325
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
PRAI	JP 2004-91681	A	20040326		
	JP 2004-92000	A	20040326		
	JP 2004-225286	A	20040802		
	JP 2005-27918	A	20050203		
	JP 2005-29177	A	20050204		
	JP 2005-59057	A	20050303		
	JP 2005-80040	A	20050318		
	JP 2005-82283	A	20050322		
	WO 2005-JP6423	W	20050325		

AB A method for selectively separating and purifying RNA from a mixture solution of nucleic acid containing DNA and RNA is provided. The method comprises the steps of adsorbing nucleic acid, washing, subjecting to a DNase

treatment, washing and desorbing the RNA from a nucleic acid-adsorbing porous membrane by a recovering solution, wherein a total amount of a DNase solution is 130 mL or less per 1 cm<sup>2</sup> of the membrane. The washing solution contains a water-soluble organic solvent having a concentration of 50% by weight or less, and does not contain a chaotropic salt. Also part of the apparatus are a container, and a device for creating pressure gradient such pump. Purification of DNA by adsorption on 100% surface saponified acetyl cellulose is described.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 4 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN  
AN 2004-216136 [21] WPIDS  
DNC C2004-085528 [21]  
TI Separation and purification of ribonucleic acids from nucleic acid mixtures, by adsorbing and desorbing nucleic acid in a mixture containing ribonucleic and deoxyribonucleic acid, to and from solid phase of organic macromolecule  
DC A97; B04; D16  
IN MAKINO Y; MAKINO Y F P F C L; MORI T; MORI T F P F C L  
PA (FUJF-C) FUJI PHOTO FILM CO LTD; (MAKI-I) MAKINO Y; (MORI-I) MORI T  
CYC 33  
PIA EP 1382677 A1 20040121 (200421)\* EN 20[5]  
JP 2004049107 A 20040219 (200421) JA 16  
US 20040058370 A1 20040325 (200422) EN  
EP 1382677 B1 20050302 (200517) EN  
DE 60300356 E 20050407 (200525) DE  
DE 60300356 T2 20060406 (200625) DE  
ADT EP 1382677 A1 EP 2003-15676 20030718; JP 2004049107 A JP 2002-210833 20020719; DE 60300356 E DE 2003-600356 20030718; DE 60300356 E EP 2003-15676 20030718; US 20040058370 A1 US 2003-621412 20030718; DE 60300356 T2 DE 2003-600356 20030718; DE 60300356 T2 EP 2003-15676 20030718  
FDT DE 60300356 E Based on EP 1382677 A; DE 60300356 T2 Based on EP 1382677 A  
PRAI JP 2002-210833 20020719  
AN 2004-216136 [21] WPIDS  
AB EP 1382677 A1 UPAB: 20050906

NOVELTY - RNA from a nucleic acid mixture is separated and purified, by adsorbing and desorbing a nucleic acid in the nucleic acid mixture, containing RNA and DNA to and from a solid phase of an organic macromolecule.

USE - The method is for separation and purification of ribonucleic acid from nucleic acid mixture. The nucleic acid is used in the form of a probe, a genomic nucleic acid, and a plasmid nucleic acid. It is useful in the detection and diagnosis of a human pathogen and genetic disorders, and in detection of a food contamination substance. It is used in positioning, identification, and isolation of an interesting nucleic acid for preparation of a gene map, cloning, and expression of recombinant.

ADVANTAGE - The method uses a solid phase, which is excellent in separation performance, and washing efficiency, can be easily processed, and can be mass-produced for those having the same separation performance.

DESCRIPTION OF DRAWINGS - The figure shows a conceptual diagram of a unit for separation and purification of nucleic acid.

L5 ANSWER 4 OF 4 USPATFULL on STN  
AN 2004:76592 USPATFULL  
TI Method for separating and purifying a nucleic acid  
IN Mori, Toshihiro, Asaka-shi, JAPAN  
Makino, Yoshihiko, Asaka-shi, JAPAN  
PI US 2004058370 A1 20040325  
AI US 2003-621412 A1 20030718 (10)  
PRAI JP 2002-210833 20020719  
DT Utility

FS APPLICATION  
LREP BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747  
CLMN Number of Claims: 18  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Page(s)  
LN.CNT 951

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An object of the present invention is to provide a method for separating and purifying a nucleic acid by adsorbing the nucleic acid in a test sample to a surface of a solid phase and desorbing the nucleic acid by washing and the like. The present invention provides a method for separating and purifying RNA from a nucleic acid mixture, comprising a step of: adsorbing and desorbing a nucleic acid in the nucleic acid mixture containing RNA and DNA to and from a solid phase of an organic macromolecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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